

FIG 1

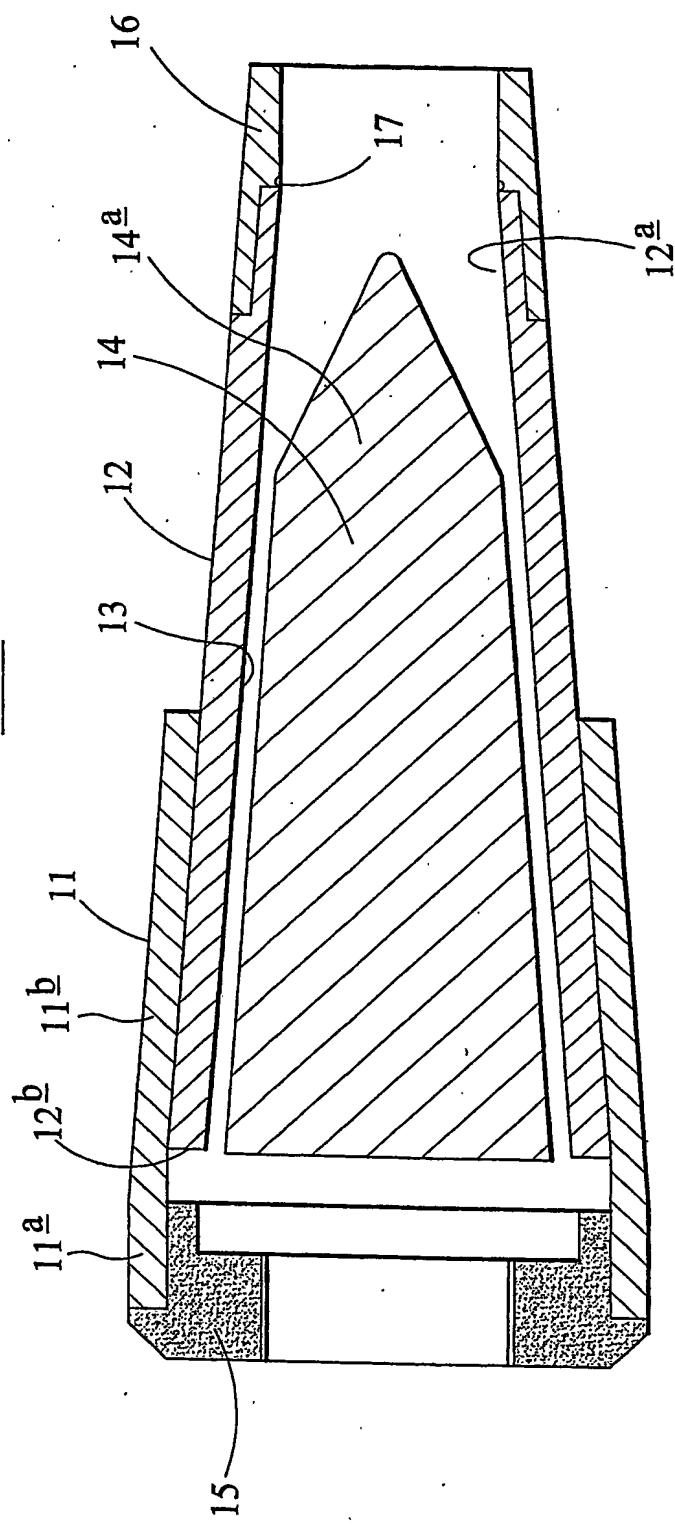


FIG 2

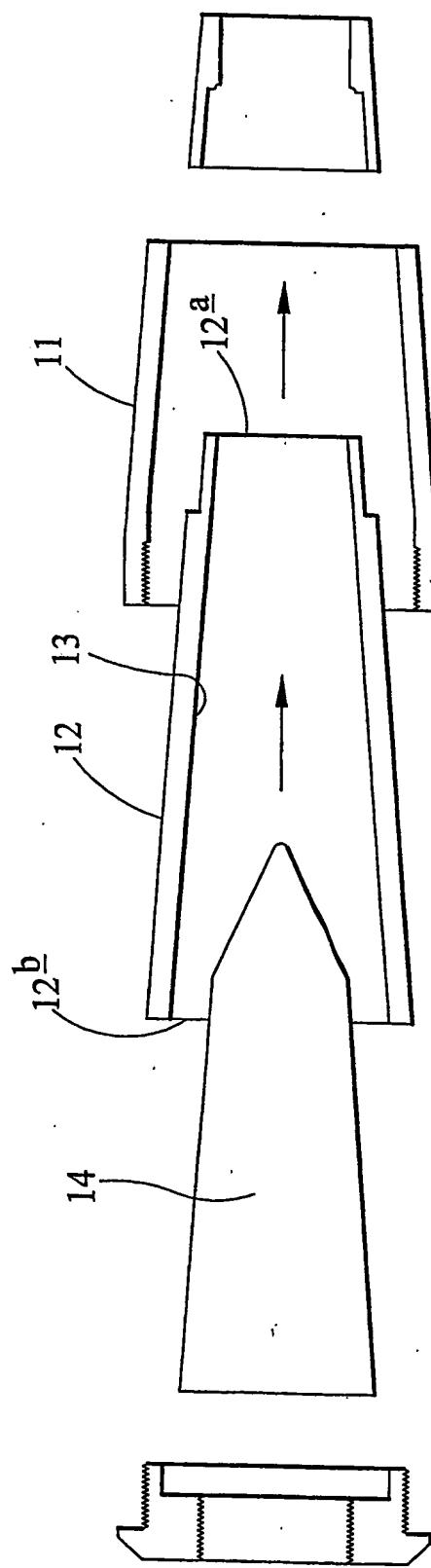


FIG 3

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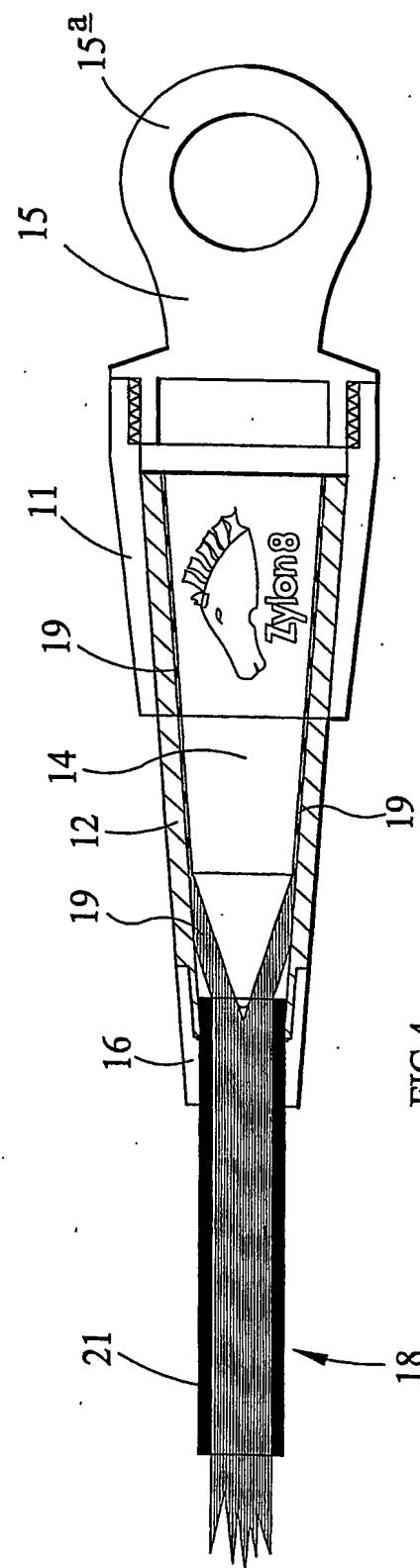


FIG 4

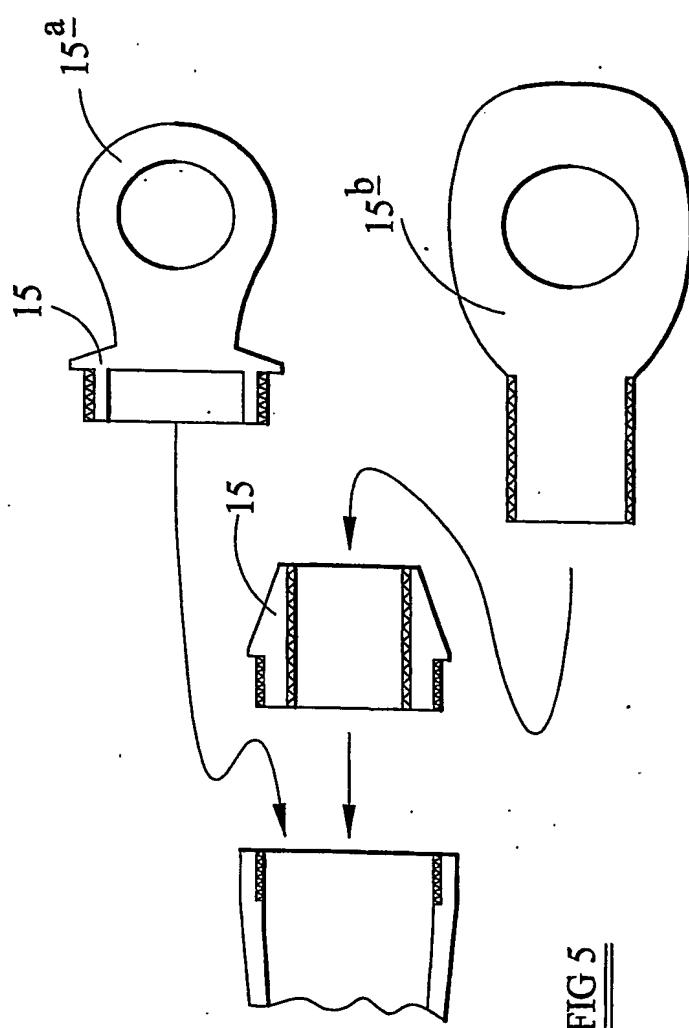
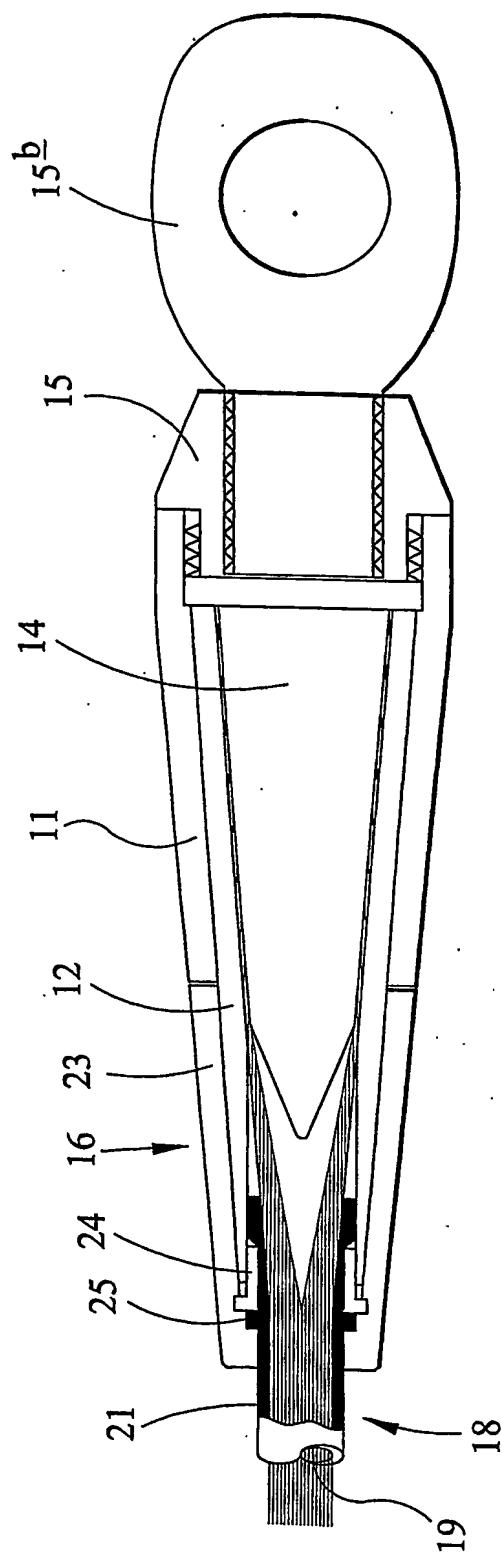
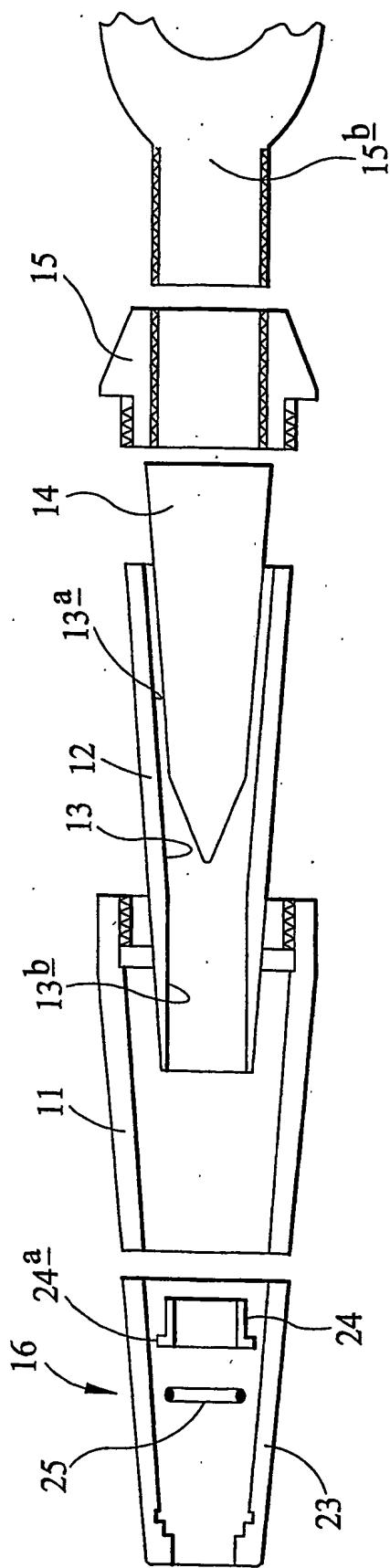


FIG 5

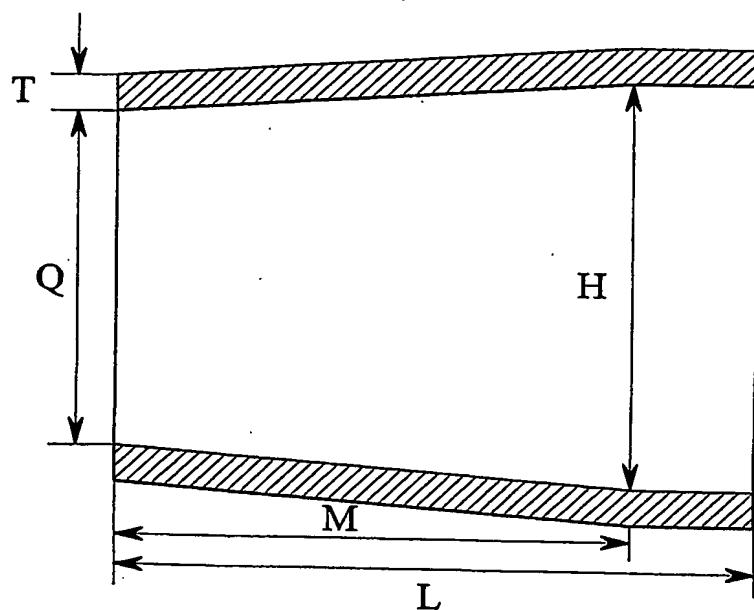
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Zylon™ ropesBody Summary

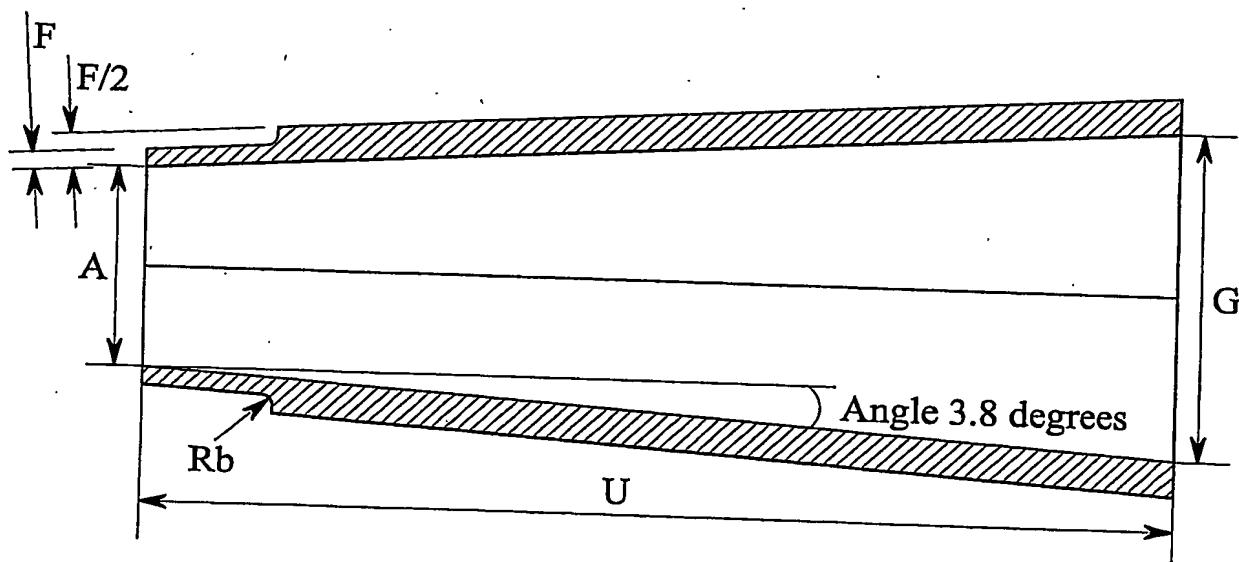
size	Q Small End I.D.	H Large End I.D.	T wall thickness	M mating length	L total length
8.0	16.59	21.64	1.79	38.00	48.08
10.0	18.49	23.93	2.00	41.00	52.28
12.0	20.39	26.10	2.19	43.00	55.35
15.0	23.47	29.31	2.45	44.00	57.81
22.5	29.00	35.38	3.00	48.00	64.91
25.0	30.48	36.59	3.16	46.00	63.83
30.0	33.96	41.27	3.46	55.00	74.53
45.0	40.93	49.96	4.24	68.00	91.92
54.0	44.87	54.83	4.65	75.00	101.20
60.0	46.83	57.32	4.90	79.00	106.62
90.0	58.34	71.09	6.00	96.00	129.83
120.0	67.18	81.93	6.93	111.00	150.06
270.0	100.54	122.59	10.39	166.00	224.59

Table 1

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Zylon™ Ropes Barrel summary

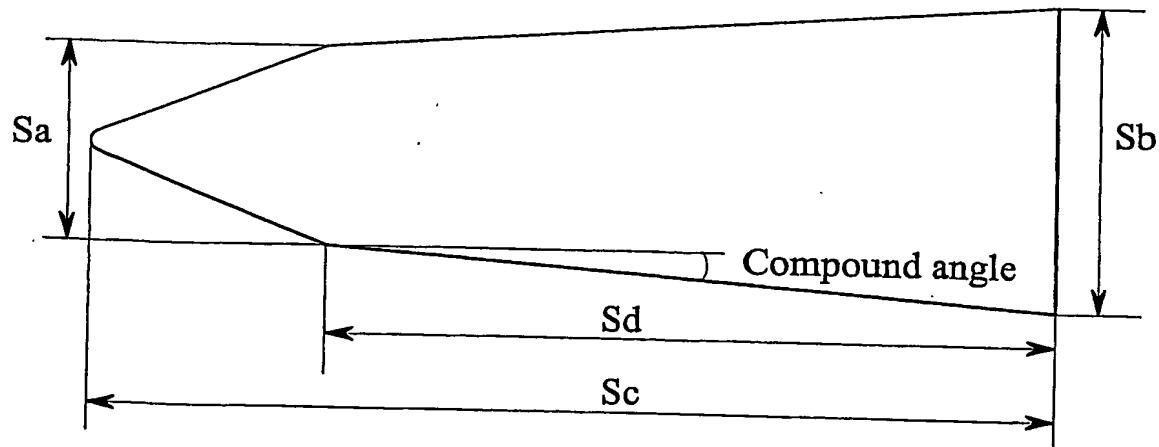
size	U	A	G	F	Wall Thickness	Winding Angle
	length	Small I.D.	Large I.D.			
8.0	63.00	8.80	17.17	2.24		67°
10.0	71.00	9.50	18.93	2.50		66°
12.0	80.00	10.00	20.63	2.74		65°
15.0	88.00	11.50	23.19	3.06		65°
22.5	112.00	13.00	27.88	3.75		63°
25.0	113.00	15.00	28.68	3.95		63°
30.0	125.00	16.00	32.60	4.33		61°
45.0	157.00	18.50	39.36	5.30		60°
54.0	171.00	20.50	43.22	5.81		60°
60.0	185.00	20.50	45.08	6.12		61°
90.0	219.00	27.00	56.09	7.50		63°
120.0	253.00	31.00	64.61	8.66		63°
270.0	381.00	46.00	96.61	12.99		63°

Table 2

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Zylon™ ropes

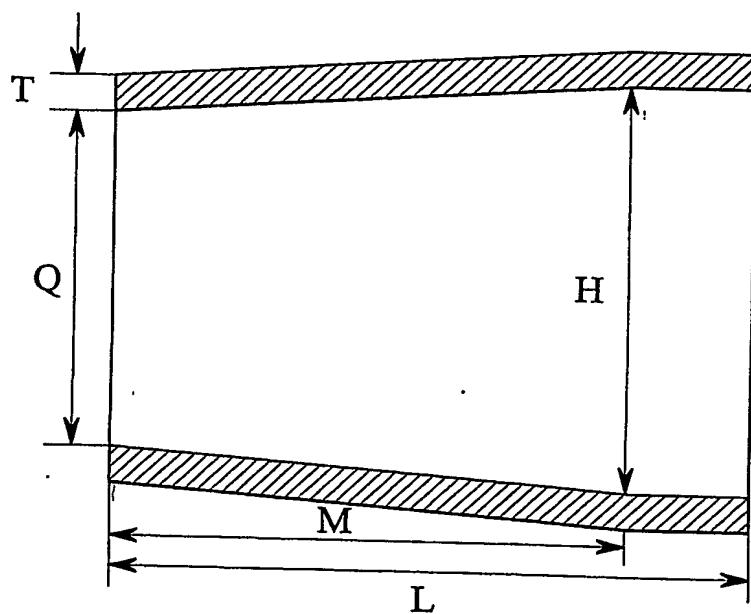
size	Sc	<u>Spike Summary</u>		
		Sd	Sb	Sa
	Total Length	Effective Length	Large O.D.	Small O.D.
8.0	59.850	44.888	16.516	10.142
10.0	67.450	50.588	18.191	11.007
12.0	76.000	57.000	19.811	11.717
15.0	83.600	62.700	22.283	13.379
22.5	106.400	79.800	26.745	15.414
25.0	97.850	73.388	27.458	17.037
30.0	118.750	89.063	31.314	18.667
45.0	149.150	111.863	37.751	21.866
54.0	162.450	121.838	41.462	24.161
60.0	175.750	131.813	43.206	24.489
90.0	208.050	156.038	53.841	31.683
120.0	240.350	180.263	62.002	36.405
270.0	361.950	271.463	92.690	54.142

Table 3

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Aramid ropesBody Summary

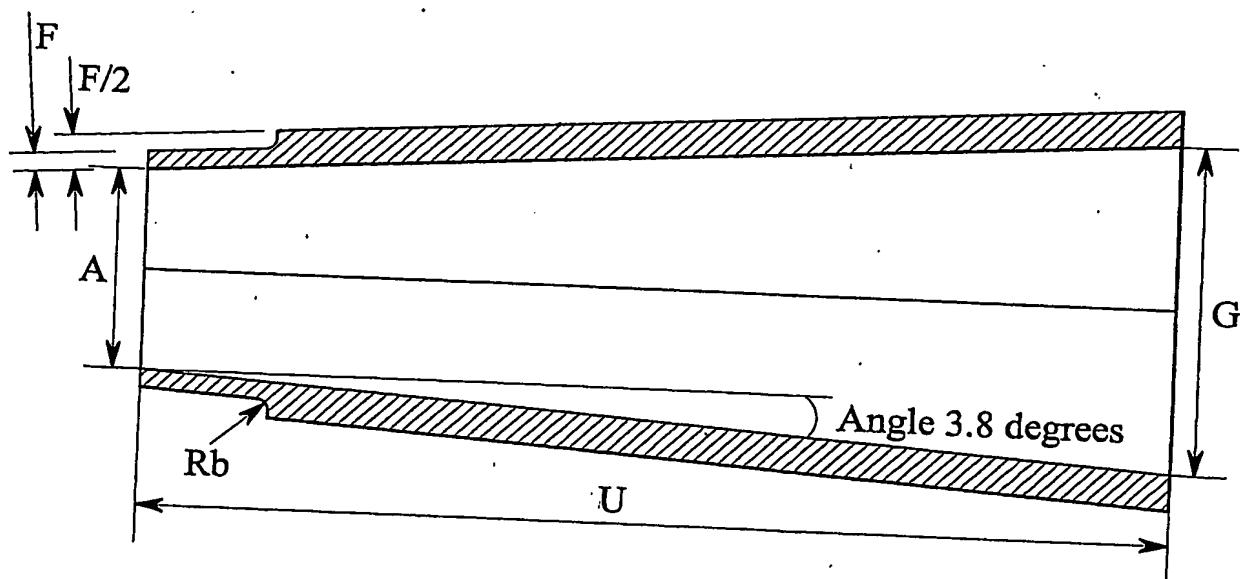
size	Q	H	T	M	L
	Small End I.D.	Large End I.D.	Wall Thickness	Mating Length	Total Length
8.0	18.39	23.18	1.79	36.00	45.17
10.0	20.95	26.00	2.00	38.00	48.25
12.0	23.23	28.41	2.19	39.00	50.23
15.0	26.67	31.99	2.45	40.00	52.55
22.5	32.67	38.52	3.00	44.00	59.38
25.0	34.48	40.59	3.16	46.00	62.21
30.0	38.13	44.77	3.46	50.00	67.75
45.0	47.67	55.64	4.24	60.00	81.74
54.0	52.11	60.88	4.65	66.00	89.82
60.0	54.54	63.84	4.90	70.00	95.11
90.0	64.01	75.83	6.00	89.00	119.75
120.0	74.46	88.01	6.93	102.00	137.51
270.0	115.76	135.42	10.39	148.00	201.26

Table 4

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Aramid Ropes Barrel summary

size	U	A	G	F	
	length	Small End I.D.	Large End I.D.	Wall Thickness	Winding Angle
8.0	58.00	11.00	18.70	2.24	67°
10.0	64.00	12.50	21.00	2.50	67°
12.0	71.00	13.50	22.93	2.74	66°
15.0	78.00	15.50	25.86	3.06	65°
22.5	98.00	18.00	31.02	3.75	64°
25.0	103.00	19.00	32.68	3.95	63°
30.0	110.00	21.50	36.11	4.33	63°
45.0	132.00	27.50	45.03	5.30	60°
54.0	145.00	30.00	49.26	5.81	60°
60.0	155.00	31.00	51.59	6.12	60°
90.0	202.00	34.00	60.83	7.50	62°
120.0	231.00	40.00	70.69	8.66	63°
270.0	327.00	66.00	109.44	12.99	63°

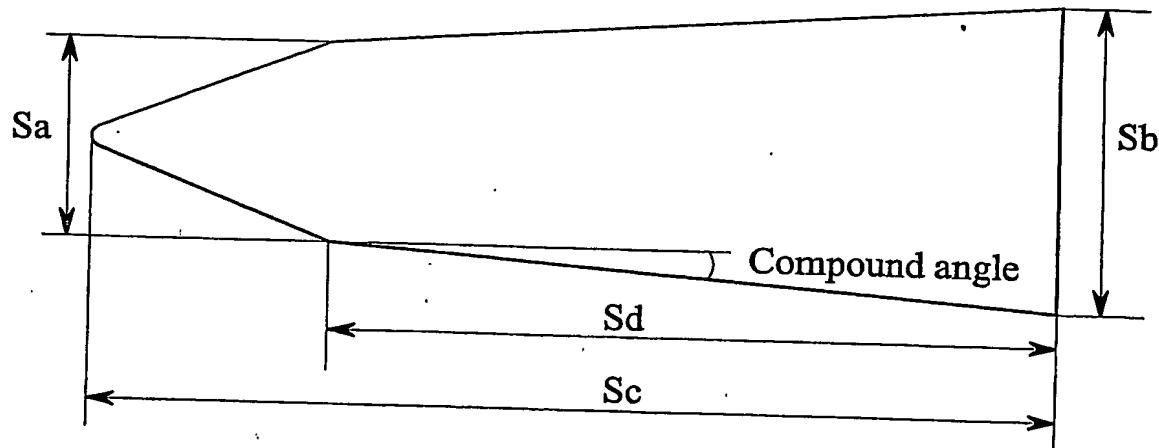
Table 5

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Aramid ropesSpike Summary

size	Sc	Sd	Sb	Sa
	Total Length	Effective Length	Large End O.D.	Small End O.D.
8.0	55.100	41.325	17.489	11.621
10.0	60.800	45.600	19.649	13.174
12.0	67.450	50.588	21.444	14.261
15.0	74.100	55.575	24.214	16.322
22.5	93.100	69.825	28.955	19.040
25.0	97.850	73.388	30.506	20.085
30.0	104.500	78.375	33.751	22.621
45.0	125.400	94.050	42.198	28.843
54.0	137.750	103.313	46.149	31.479
60.0	147.250	110.438	48.286	32.604
90.0	191.900	143.925	56.619	36.182
120.0	219.450	164.588	65.852	42.481
270.0	310.650	232.988	102.430	69.345

Table-6

Table 6